CLAIMS

1. A compound of Formula I

 R_1 R_2 R_3

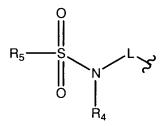
Formula I

wherein one of R_1 and R_2 is a group of the formula

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wherein R_4 is selected from H and hydrocarbyl, R_5 is a hydrocarbyl group and L is an optional linker group,

or R_1 and R_2 together form a ring substituted with the group



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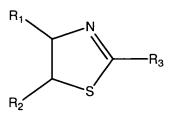
wherein R₃ is H or a substituent

and wherein X is selected from S, O, NR_6 and $C(R_7)(R_8)$, wherein R_6 is selected from H and hydrocarbyl groups, wherein each of R_7 and R_8 are independently selected from H and hydrocarbyl groups;

or a salt thereof.

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2. A compound according to claim 1 of Formula II



Formula II

or a salt thereof.

- 3. A compound according to claim 1 wherein L is not present.
- 4. A compound according to claim 1 wherein R_1 and R_2 together form a ring substituted with the group

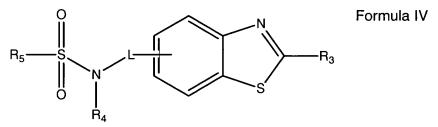
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- 5. A compound according to claim 1 wherein R_1 and R_2 together form a carbocyclic ring.
- 10 6. A compound according to claim 1 wherein R₁ and R₂ together form a six membered ring.
 - 7. A compound according to claim 1 wherein R_1 and R_2 together form an aryl ring.
- 15 8. A compound according to claim 1 of Formula III

$$R_5$$
 R_4
Formula III

or a salt thereof.

9. A compound according to claim 1 of Formula IV



or a salt thereof.

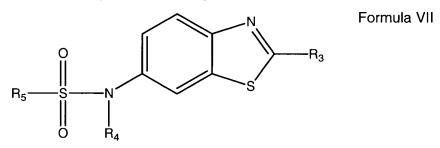
10. A compound according to claim 1 of Formula V

or a salt thereof.

5 11. A compound according to claim 1 of Formula VI

or a salt thereof.

12. A compound according to claim 1 of Formula VII



or a salt thereof.

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- 13. A compound according to claim 1 wherein R_3 is selected from H, hydrocarbyl, -S-hydrocarbyl, -S-H, halogen and $N(R_9)(R_{10})$, wherein each of R_9 and R_{10} are independently selected from H and hydrocarbyl groups.
- 15 14. A compound according to claim 1 wherein R₃ is selected from H and C₁-C₁₀ alkyl groups, such as C₁-C₆ alkyl group, and C₁-C₃ alkyl group.
 - 15. A compound according to claim 1 wherein R₃ is –CH₃.

Formula IX

Formula X

16. A compound according to claim 1 of Formula VIII

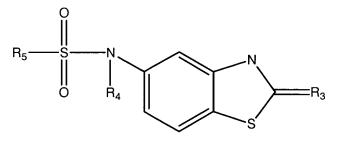
or a salt thereof.

5 17. A compound according to according to claim 1 of Formula IX

$$R_5$$
 R_5
 R_4
 R_5
 R_3

or a salt thereof.

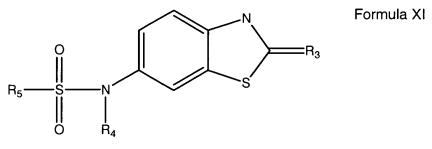
18. A compound according to according to claim 1 of Formula X



or a salt thereof.

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19. A compound according to claim 1 of Formula XI



or a salt thereof.

20. A compound according to claim 16 wherein R₃ is selected from O, hydrocarbyl, and

N(R₉) wherein R₉ is selected from H and hydrocarbyl groups.

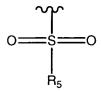
21. A compound according to claim 1 wherein R_3 is selected from O, C_1 - C_{10} alkenyl groups, NH, and N- C_1 - C_{10} alkyl groups.

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- 22. A compound according to claim 21 wherein R₃ is a C₁-C₆ alkenyl group.
- 23. A compound according to claim 21 wherein R₃ is a C₁-C₃ alkenyl group.
- 10 24. A compound according to claim 21 wherein R₃ is a N-C₁-C₆ alkyl group.
 - 25. A compound according to claim 21 wherein R₃ is a N-C₁-C₃ alkyl group.
- 26. A compound according to claim 1 wherein R_4 is selected from H and C_1 - C_{10} alkyl groups.
 - 27. A compound according to claim 26 wherein R₃ is a C₁-C₆ alkyl group.
 - 28. A compound according to claim 26 wherein R_3 is a C_1 - C_3 alkyl group.

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- 29. A compound according to claim 1 wherein R₄ is H.
- 30. A compound according to claim 1 wherein R_4 is a group of the formula.



- 31. A compound according to claim 1 wherein R_5 is a substituted ring.
- 32. A compound according to claim 1 wherein R₅ is a carbocyclic ring.
- 30 33. A compound according to claim 1 wherein R₅ is a six membered ring.
 - 34. A compound according to claim 1 wherein R_5 is an aryl ring.

35. A compound according to claim 1 wherein R₅ is a group having the formula

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wherein each of R_{11} , R_{12} , R_{13} , R_{14} and R_{15} are independently selected from H, halogen, and hydrocarbyl groups.

- 36. A compound according to claim 35 wherein each of R_{11} , R_{12} , R_{13} , R_{14} and R_{15} are independently selected from H, halogen, alkyl, phenyl, O-alkyl, O-phenyl, nitrile, haloalkyl, carboxyalkyl, -CO₂H, CO₂alkyl, and NH-acetyl groups.
- 37. A pharmaceutical composition comprising a compound according to claim 1 optionally admixed with a pharmaceutically acceptable carrier, diluent, excipient or adjuvant.
- 38. A method of preventing or treating a condition or disease associated with 11β-HSD, comprising administering an effective amount of a compound according to claim 1 to an individual in need thereof.
 - 39. The method according to claim 38 wherein the condition or disease is selected from metabolic disorders; cardiovascular disorders; glaucoma; inflammatory disorders; immune disorders; bone disorders; cancer; intra-uterine growth retardation; apparent mineralocorticoid excess syndrome (AME); polycystic ovary syndrome (PCOS); hirsutism; acne; oligo- or amenorrhea; adrenal cortical adenoma and carcinoma; Cushing's syndrome; pituitary tumours; invasive carcinomas; breast cancer; and endometrial cancer.
- 25 40. The method according to claim 39 wherein the condition or disease is diabetes or obesity.
 - 41. The method according to claim 39 wherein the condition or disease is hypertension.

- 42. The method according to claim 39 wherein the condition or disease is arthritis or asthma.
- 5 43. The method according to claim 39 wherein the condition or disease is osteoporosis.
 - 44. The method according to claim 38 wherein the 11β-HSD is 11β-HSD Type 1.
 - 45. The method according to claim 38 wherein the 11β -HSD is 11β -HSD Type 2.
 - 46. A method of preventing or treating a condition or disease associated with adverse 11β-HSD levels, comprising administering an effective amount of a compound according to claim 1 to an individual in need thereof.
- 15 47. A method of modulating 11β-HSD activity, comprising administering an effective amount of a compound according to claim 1.
 - 48. A method of inhibiting 11β-HSD activity, comprising administering an effective amount of a compound according to claim 1.
 - 49. A method comprising (a) performing a 11β -HSD assay with at least one candidate compound according to claim 1; (b) determining whether at least one of said candidate compounds is capable of modulating 11β -HSD activity; and (c) selecting at least one of said candidate compounds that is capable of modulating 11β -HSD activity.
 - 50. A compound identified by the method according to claim 49.
 - 51. A pharmaceutical composition comprising the compound according to claim 50 optionally admixed with a pharmaceutically acceptable carrier, diluent, excipient or adjuvant.
 - 52. A method of preventing or treating a condition or disease associated with 11β-HSD, comprising administering an effective amount of a compound according to claim 50 to an individual in need thereof.
- The method according to claim 52 wherein the condition or disease is selected from

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metabolic disorders; cardiovascular disorders; glaucoma; inflammatory disorders; immune disorders; bone disorders; cancer; intra-uterine growth retardation; apparent mineralocorticoid excess syndrome (AME); polycystic ovary syndrome (PCOS); hirsutism; acne; oligo- or amenorrhea; adrenal cortical adenoma and carcinoma; Cushing's syndrome; pituitary tumours; invasive carcinomas; breast cancer; and endometrial cancer.

- 54. A method of preventing or treating a condition or disease associated with adverse levels of 11β-HSD, comprising administering an effective amount of a compound according to claim 50 to an individual in need thereof.
- 55. The method according to claim 49 wherein the 11β-HSD is selected from 11β-HSD Type 1 and 11β-HSD Type 2.
- 56. A method comprising (a) performing a 11β-HSD assay with at least one candidate compound according to claim 1; (b) determining whether at least one of said candidate compounds is capable of inhibiting 11β-HSD activity; and (c) selecting at least one of said candidate compounds that is capable of inhibiting 11β-HSD activity.
 - 57. A compound identified by the method according to claim 56.

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- 58. A pharmaceutical composition comprising the compound according to claim 57 optionally admixed with a pharmaceutically acceptable carrier, diluent, excipient or adjuvant.
- 59. A method of preventing or treating a condition or disease associated with 11β-HSD,
 25 comprising administering an effective amount of a compound according to claim 57 to an individual in need thereof.
 - 60. The method according to claim 59 wherein the condition or disease is selected from metabolic disorders; cardiovascular disorders; glaucoma; inflammatory disorders; immune disorders; bone disorders; cancer; intra-uterine growth retardation; apparent mineralocorticoid excess syndrome (AME); polycystic ovary syndrome (PCOS); hirsutism; acne; oligo- or amenorrhea; adrenal cortical adenoma and carcinoma; Cushing's syndrome; pituitary tumours; invasive carcinomas; breast cancer; and endometrial cancer.
- 35 61. A method of preventing or treating a condition or disease associated with adverse

levels of 11β -HSD, comprising administering an effective amount of a compound according to claim 57 to an individual in need thereof.

- 62. The method according to claim 56 wherein the 11β-HSD is selected from 11β-HSD
 5 Type 1 and 11β-HSD Type 2.
 - 63. A compound according to claim 1 wherein R₃ is a C₁-C₆ alkyl group.
 - 64. A compound according to claim 1 wherein R₃ is a C₁-C₃ alkyl group.